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Patent Claims

1. Procedure for the control of a respirator device, in which one can set at least two different pressure levels for a breathable gas supply and in which at least one respirator-treatment parameter is captured by measurement technique and is evaluated for the control of the respirator-treatment pressure; characterized in that at least one of the respirator-treatment parameters is modified as a function of a pattern recognition; in order to carry out the pattern recognition the time-wise evolution of at least one respirator-treatment parameter is captured, at least at intervals, and is analyzed with respect to typical evolution patterns.
2. Procedure according to Claim 1, characterized in that an existing pressure level for breathing support is overlaid at least temporarily with a stimulating stream oscillating at a defined frequency.
3. Procedure according to Claims 1 or 2, characterized in that, after a selective evaluation of an oscillatory pressure amplitude, occurring with the frequency of the stimulating stream in the air delivery of a patient (which corresponds to a breathing resistance of the patient), a selection of the respective pressure amplitude is carried out.
4. Procedure according to one of the Claims 1 through 3, characterized in that a CPAP respirator treatment is carried out

5. Proceeding according to one of the Claims 1 through 4, characterized in that at least one electrical signal is evaluated during the pattern recognition.
6. Procedure according to one of the Claims 1 through 4, characterized in that a physical signal is evaluated during the pattern recognition.
7. Procedure according to one of the Claims 1 through 6, characterized in that a derivation of classes of errors is implemented in the context of the pattern recognition.
8. Procedure according to one of the Claims 1 through 7, characterized in that an OPS signal (Oscillating Pressure Signal) is evaluated.
9. Procedure according to one of the Claims 1 through 8, characterized in that a static pressure signal is evaluated.
10. Procedure according to one of the Claims 1 through 8, characterized in that a pressure variation is evaluated.
11. Procedure according to one of the Claims 1 through 8, characterized in that a flow signal is evaluated.
12. Procedure according to one of the Claims 1 through 8, characterized in that a signal proportional to the flow signal and/or to a pressure-dependent signal is evaluated.
13. Procedure according to one of the Claims 1 through 9, characterized in that an electrical-drive parameter of the compressed-gas supply is evaluated.
14. Procedure according to one of the Claims 1 through 13, characterized in that in the pattern recognition, distinctive form features are evaluated.
15. Procedure according to one of the Claims 1 through 14, characterized in that in the pattern recognition, distinctive time features are evaluated.
16. Procedure according to one of the Claims 1 through 15, characterized in that following the pattern recognition, a class assignment is carried out.



26. Apparatus according to one of the Claims 17 through 25, characterized in that the control (6) features an adaptation element for the implementation of a pressure modification as a function of the stored information on the patient population.
27. Apparatus according to one of the Claims 17 through 26, characterized in that the analyzer (11) is provided with a neuron network.
28. Apparatus according to one of the Claims 17 through 26, characterized in that the analyzer (11) is provided with fuzzy logic.
29. Apparatus according to one of the Claims 17 through 25, characterized in that the sensor (5) is connected to at least one scanning element.
30. Apparatus according to one of the Claims 17 through 29, characterized in that the scanning element is connected to a band pass filter.
31. Apparatus according to Claim 30, characterized in that the band pass filter is designed as a digital filter.
32. Apparatus according to one of the Claims 17 through 31, characterized in that the control (6) is connected to a generator for the production of receptor-stimulating pressure signals.
33. Apparatus according to one of the Claims 17 through 32, characterized in that the analyzer (11) features separate evaluations for inspiration- and for expiration-pressure readings.
34. Apparatus according to Claim 33, characterized in that different pressure-control characteristics are provided for inspiration- and expiration-pressure readings.